

CLAIM AMENDMENTS

Please amend Claims 1-4 and 7-9, and cancel Claim 10-13.

1. (Currently Amended) A photoelectric conversion apparatus comprising:

a sensor array for receiving reflected light from an object;

a first transfer means for transferring a signal unit arranged to transfer signals from said sensor array; and

a ring-shaped second transfer means for integrating unit arranged to integrate the signal signals from said first transfer means unit,

wherein said first ~~charge~~ transfer means unit transfers a first signal from said sensor array in a light projection ON state and a second signal from said sensor array in a light projection OFF state ~~at a predetermined timing to said second transfer unit at different timings respectively~~, and a transfer frequency of said second transfer means unit is higher than that of said first transfer means unit.

2. (Currently Amended) An apparatus according to claim 1, wherein ~~the predetermined~~ each timing of said first transfer means unit has a phase different from that of said second transfer means unit.

3. (Currently Amended) An apparatus according to claim 1, wherein said second transfer ~~means~~ unit comprises ~~a~~ skimming means for determining unit arranged to determine skimming on the basis of the second signal, and a pixel for which skimming is determined performs skimming by a combination of light projection ON and OFF states.

4. (Currently Amended) An apparatus according to claim 1, wherein the first and second signals are transferred alternately, and a light projection OFF pixel goes ahead of a light projection ON signal.

AI
cont
5. (Original) An apparatus according to claim 1, wherein integration starts from the first signal.

6. (Original) An apparatus according to claim 1, wherein light projection repeatedly alternates the ON and OFF states.

7. (Currently Amended) An apparatus according to claim ~~5~~ 3, wherein skimming is inhibited when a light projection OFF signal goes ahead of a light projection ON signal in integration of the signal in said second transfer ~~means~~ unit.

8. (Currently Amended) A distance measuring apparatus comprising:
a light projection means for projecting unit arranged to project light to an object;

a plurality of sensor arrays for receiving reflected light from the object;

a plurality of first transfer ~~means for transferring~~ units arranged to transfer signals from said plurality of sensor arrays, respectively;

At
Cnd

a plurality of second transfer ~~means for integrating~~ units arranged to integrate the signals from said plurality of first transfer ~~means~~ units, respectively, wherein each of said first transfer means transfers a first signal from said sensor array in a light projection ON state and a second signal from said sensor array in a light projection OFF state ~~at a predetermined timing to the second transfer units at different timings respectively,~~ and a transfer frequency of each of said second transfer ~~means~~ units is higher than that of each of said first transfer ~~means~~ units; and

a distance measuring ~~means for measuring~~ unit arranged to measure a distance using a difference signal between the first signal and the second signal output from said plurality of second transfer ~~means~~ units.

9. (Currently Amended) An apparatus according to claim 8, wherein ~~the predetermined~~ each timing of said first transfer ~~means~~ units has a phase different from that of said second transfer ~~means~~ units.

10. (Cancelled)

11. (Cancelled)

Shel

12. (Cancelled)

13. (Cancelled)
